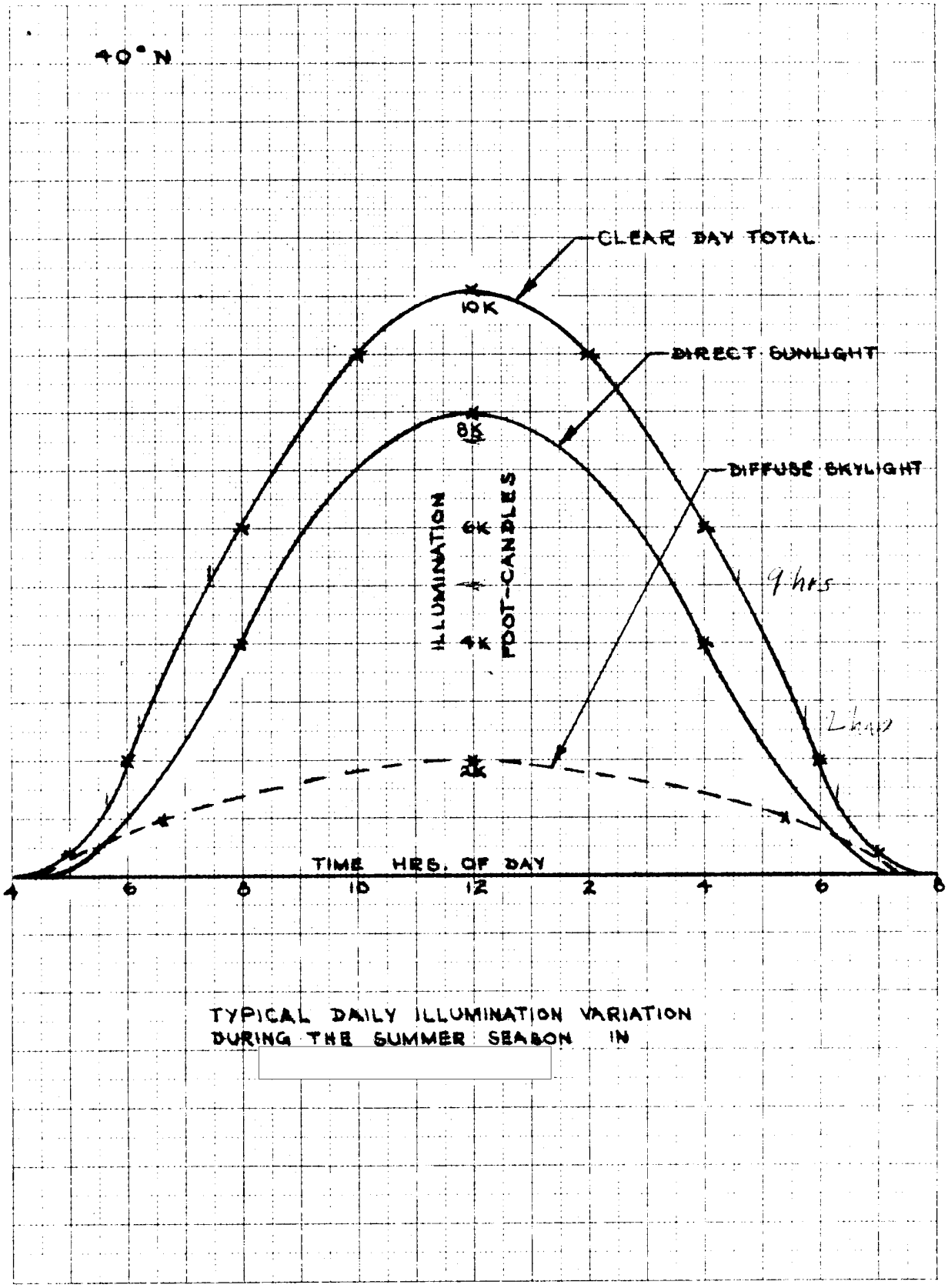
GENERAL EVALUATION OF EXPOSURE CONTROL SYSTEMS

	IRIS CONTROL		TIME CONTROL		COMBINED CONTROL	
	PRO	CON	PRO	CON	PRO	CON
	HIGH STATIC RESOLUTION	GREATER POWER CONSUMPTION	HIGH SYSTEM RELIABILITY	LESS DEPTH OF FIELD	MAX. DYNAMIC RANGE CAPABILITY	HIGH COMPLEXITY
	GREATER DEPTH OF FIELD	LOW SYSTEM RELIABILITY	HIGH SYSTEM RESOLUTION	LESS STATIC RESOLUTION	MAX. OPERATING TIME	LESS EQUIPMENT RELIABILITY
		HIGH MECHANICAL COMPLEXITY	HIGH DYNAMIC RANGE		MAX. CONTRAST	HIGHER COST
		LESS DYNAMIC RANGE	QUICK DELIVERY		MAX. RESOLUTION	LONGER DESIGN & PRODUCTION TIME
		LOW DYNAMIC RESOLUTION				
CONTINUOUS	MAX. CONTRAST	MORE POWER REQUIREMENT	SAME AS IRIS CONTROL		SAME AS IRIS CONTROL	
	MAX. RESOLUTION	MORE COMPLEXITY				
STEP	SIMPLICITY	LESS INFORMATION CONTEND				
	RELIABILITY					
OPEN LOOP	SIMPLICITY	INACURACY				
		LESS RELIABLE				
CLOSE LOOP	MORE RELIABILITY	MORE COMPLEXITY	SAME AS IRIS CONTROL		SAME AS IRIS CONTROL	
SINGLE LENS	SIMPLICITY	WORK WITH SMALL SPACE				
	RELIABILITY					
	LOW COST		SAME AS IRIS CONTROL		SAME AS IRIS CONTROL	
	MORE COMPACT					
DUAL LENS	MORE WORKING SPACE	LESS RELIABLE				
	BETTER APPROXIMATION	MORE MECHANICAL COMPLEXITY				



TYPICAL DAILY ILLUMINATION VARIATION
DURING THE SUMMER SEASON IN [redacted]

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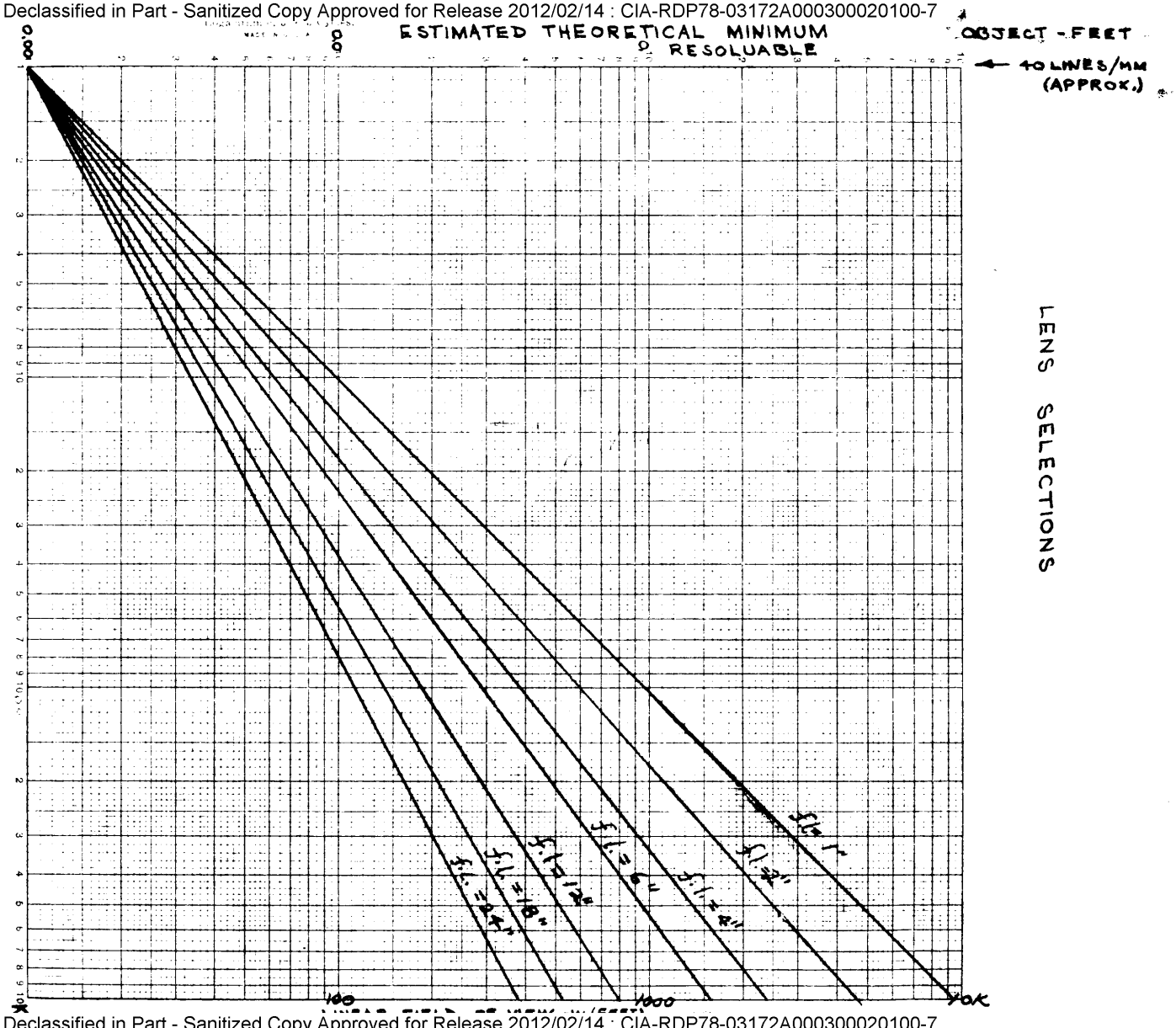
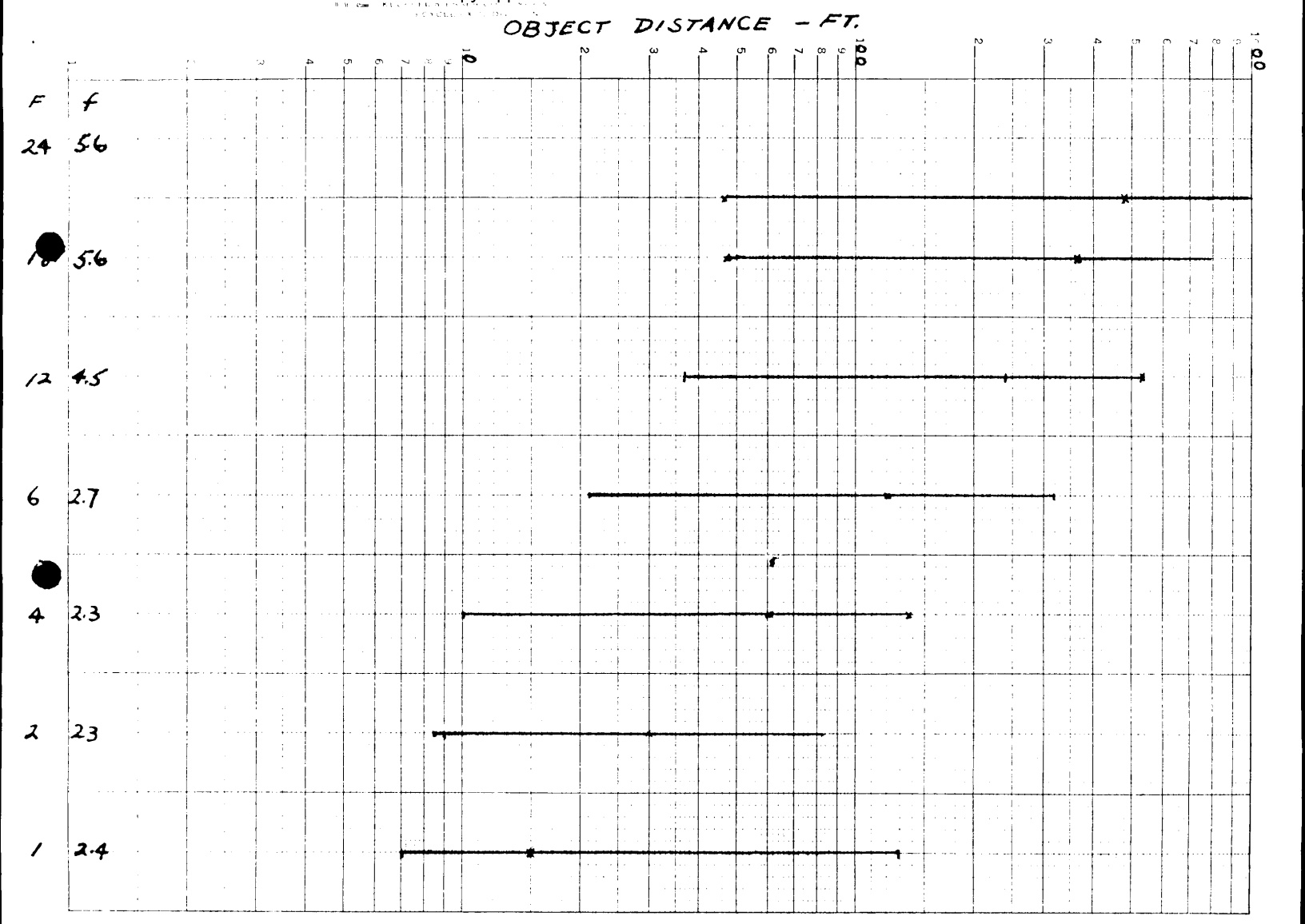
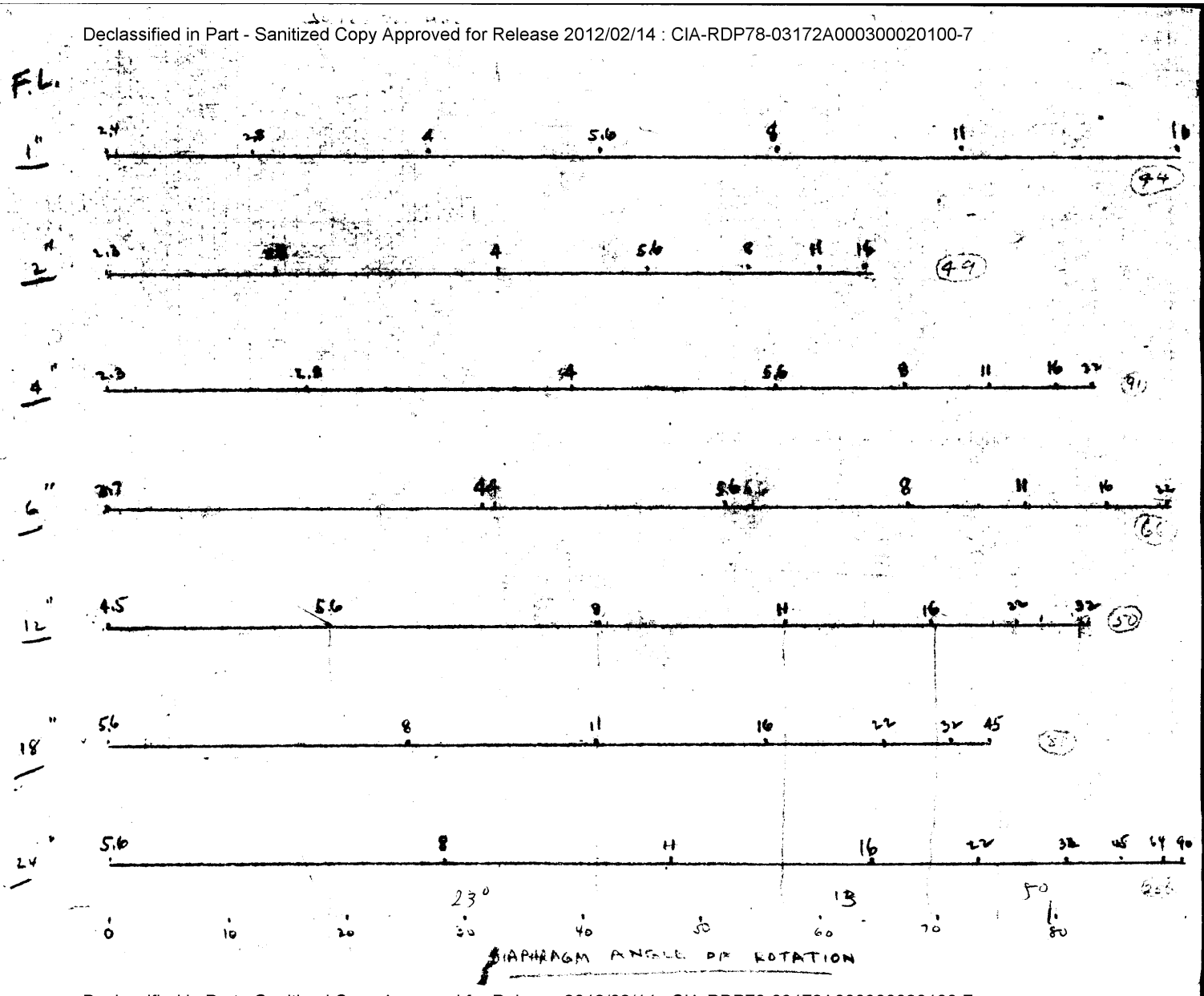




SHEET NO. ..... OF .....
JOB NO. .....
SUBJECT .....
BY ..... DATE .....
CHKD. BY ..... DATE .....



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Depth of Field Calculation for CD-192 Lens

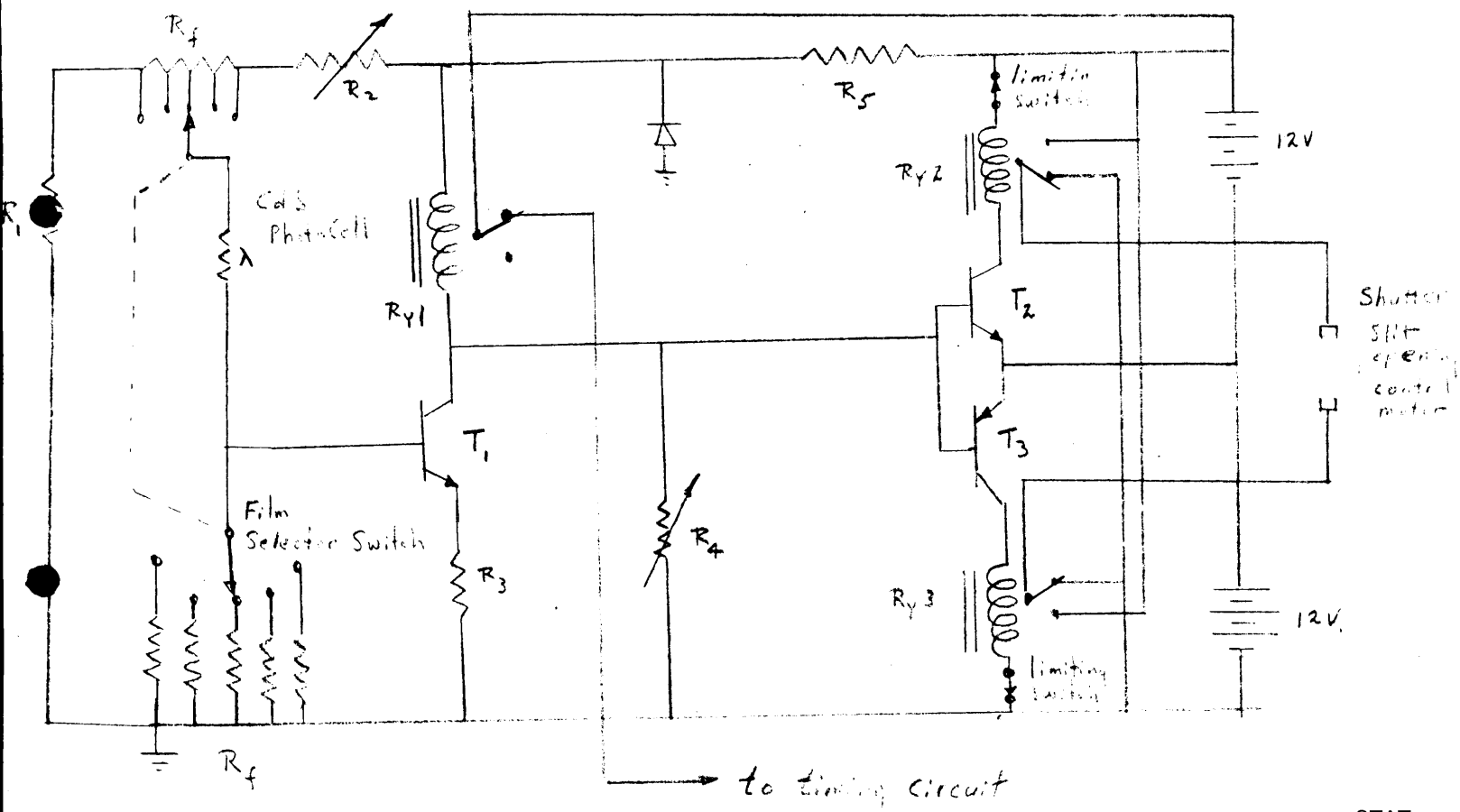
D = Depth of field $= D_N + D_F$

$D_N \doteq \frac{HS}{H+S}$ $\quad D_F \doteq \frac{HS}{H-S}$

H = hyperfocal distance $= \frac{F^2}{f C_c} \times .083$

for $C_c = 0.002$ $\quad = 41.5 F^2/f$

F	f	S	H	HS	H-S	S+H	D_F	D_N	D
1"	2.4	15	17.3	260	2.3	32.3	113	8	121
2"	2.3	30	72	2160	42	102	51.5	21.6	73
4"	2.3	60	289	17,400	229	349	>6	5[illegible]	12[illegible]
6"	2.7	120	554	6.65×10^4	434	674	199	99	298
12"	4.5	240	1330	3.19×10^5	1090	1570	293	203	49[illegible]
18"	5.6	360	2400	8.65×10^5	2040	2760	414	313	737
24"	5.6	480	4270	2.06×10^6	3790	4750	542	43[illegible]	977



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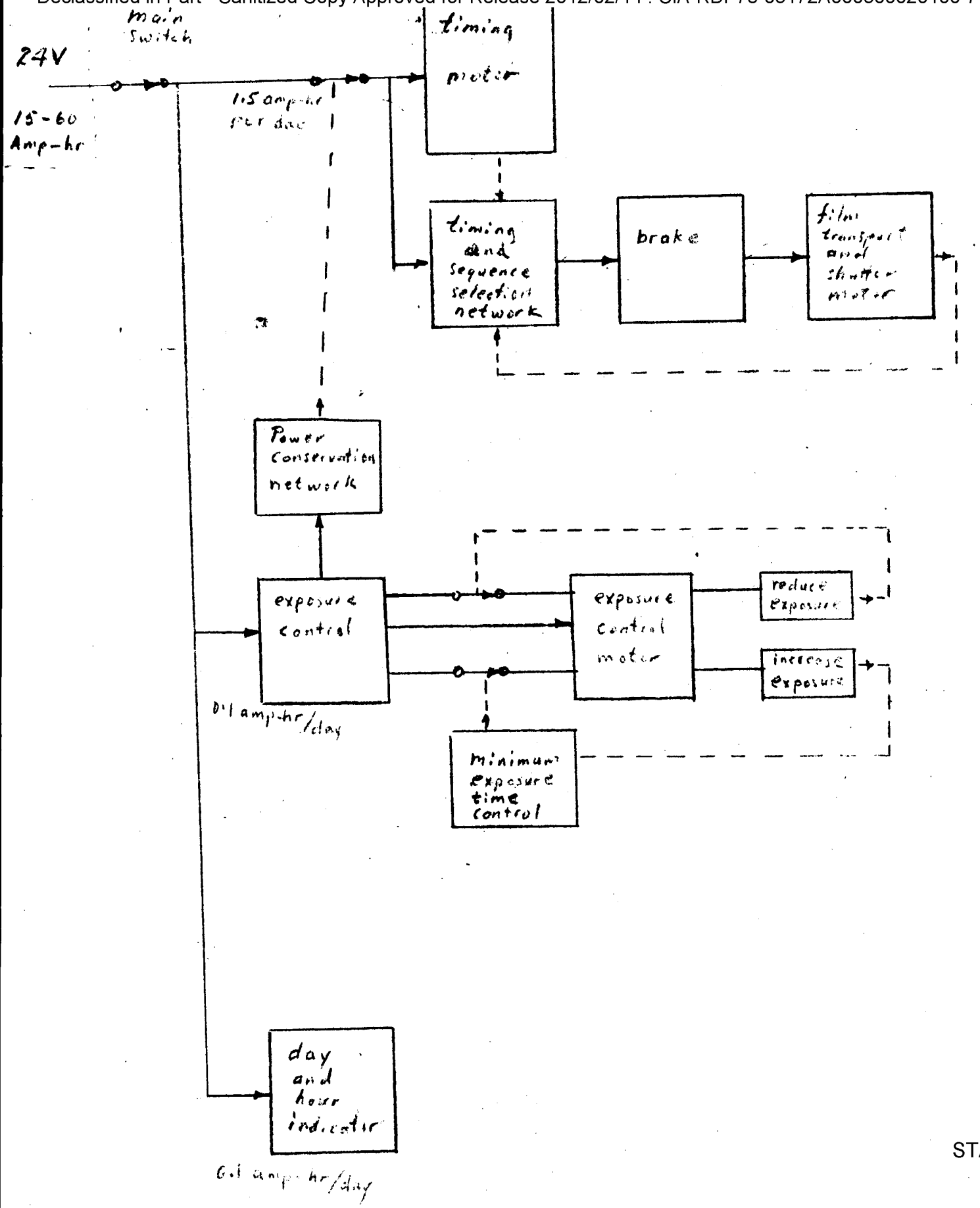
Automatic Exposure Control Circuit Diagram



CD-182 System Block Diagram

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